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23696	7590	08/20/2004		EXAM	EXAMINER	
Qualcomm	Incorpor	ated	KADING, JOSHUA A			
Patents Depa 5775 Moreh		e		ART UNIT	PAPER NUMBER	
San Diego,	CA 9212	21-1714		2661		
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Please find below and/or attached an Office communication concerning this application or proceeding.



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, ,	Application No.	Applicant(s)	W/
	09/837,151	BENDER ET AL.	•
Office Action Summary	Examiner	Art Unit	
	Joshua Kading	2661	
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet wit	h the correspondence address	5
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this communified the period for reply specified above is less than thirty (3). If NO period for reply is specified above, the maximum states a period for reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a re unication. 0) days, a reply within the statutory minimum of thirty atutory period will apply and will expire SIX (6) MONT will, by statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. "HS from the mailing date of this commun ANDONED (35 U.S.C. § 133).	iication.
Status			
1) Responsive to communication(s) file	ed on		
2a) This action is FINAL.	2b)⊠ This action is non-final.		
,	for allowance except for formal matte ce under <i>Ex parte Quayle</i> , 1935 C.D.	•	its is
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the a 4a) Of the above claim(s) is/a 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restrict	re withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the	e Examiner.		
10)⊠ The drawing(s) filed on 18 April 2001	(is/are: a)⊠ accepted or b)⊟ objec	ted to by the Examiner.	
Applicant may not request that any object	ction to the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including 11) The oath or declaration is objected to	the correction is required if the drawing(so by the Examiner. Note the attached		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies	documents have been received. documents have been received in Apof the priority documents have been and Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stag	e
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (P 3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 7/30/01, 1/2/03. 	TO-948) Paper No(s)	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152) 	ı
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DETAILED ACTION

Claim Objections

Claims 4, 5, 8, and 9 objected to because of the following informalities:

Claim 4, line 3; claim 8, line 3; and claim 9, line 3 all state "plurality of network access point". This should be changed to --plurality of network access points-- in claims 4, 8, and 9.

Claim 5, line 3 states "a plurality of routers". Since this is the second disclosure of "a plurality of routers" (the first being in claim 1, line 4) and there are further references made to "said plurality of routers" later in claim 5, it is suggested line 3 of claim 5 be changed to --said plurality of routers-- or --the plurality of routers--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 7-9, 11, and 14-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Kamm et al. (U.S. Patent 5,457,680).

Regarding claim 11, Kamm discloses "a wireless data communication system apparatus, comprising:

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a plurality of routers (figure 1, elements 102 and 104 where the gateways serve the same function as routers by routing data on to its respective destination, as can be seen in figure 1B with the more detailed drawing of the gateways of figure 1);

a plurality of network access points (figure 1, where the MDBS units in the all the cells act as access points to the network since they are the first point at which data is transferred for transmission to the network), each of said plurality of network access points being configured to:

communicate with at least two of said plurality of routers (figure 1, elements 102 and 104 where the gateways serve the same function as routers by routing data onto its respective destination, as can be seen in figure 1B with the more detailed drawing of the gateways of figure 1 where the routing tables indicate the routing function); and

communicate with at least one remote user (figure 1, elements SU1, SU2, and SU3 are all remote users in communication with the access point);

a plurality of control points (col. 12, lines 26-30 where each MDBS has a controller in it), each of said plurality of control points being associated with one of said plurality of network access points (figure 1 where each MDBS is associated with only one cell and therefore only one access point)."

Although claims 1 and 7 are broader than claim 11, certain limitations of claims 1 and 7 are identical to those in claim 11. Therefore, the corresponding limitations of claim 11 in claims 1 and 7 are rejected for the same reasons as those in claim 11.

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Regarding claim 2, Kamm discloses "the wireless data communication system apparatus as claimed in claim 1, further comprising a plurality of control points (col. 12, lines 26-30 where each MDBS has a controller in it), each of said plurality of control points being associated with one of said plurality of network access points (figure 1 where each MDBS is associated with only one cell and therefore only one access point)."

Regarding claim 5, Kamm discloses "the wireless data communication system apparatus as claimed in claim 1, further comprising:

a plurality of routers (figure 1, elements 102 and 104 where the gateways serve the same function as routers by routing data on to its respective destination, as can be seen in figure 1B with the more detailed drawing of the gateways of figure 1); and

a plurality of home agents, each of said plurality of home agents being associated with one of said plurality of routers (col. 16, lines 29-31 where the DHLR acts as the home agent and is only associated with one router or gateway)."

Regarding claims 3 and 8, Kamm discloses the apparatus of claim 2 and the apparatus of claim 7. Kamm further discloses "each of said plurality of control points is configured to control a communication between at least one of said plurality of network access points and the at least one remote user (col. 12, lines 31-35 where the act of assigning logical channels to the physical channels is an act of controlling the communication between the access point and the remote user)."

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Regarding claims 4 and 9, Kamm discloses the apparatus of claim 2 and the apparatus of claim 7. Kamm further discloses "each of said plurality of control points is configured to transfer control over said at least one of the plurality of network access point to a different control point (col. 16, lines 58-col. 17, lines 1-9 where the MDBS initiates the transfer of control once the appropriate channel is decided upon)."

Regarding claim 14, Kamm discloses "a method for data flow control in a distributed data communication system, comprising:

receiving at least two network access points data intended for a remote user (col. 7, lines 4-25 where the two access points 104 and 204 both receive data intended for a remote user and process it appropriately); and

transmitting from the at least two network access points the received data to the remote user under a control of a first control point, the first control point being associated with a network access point (col. 7, lines 25-34 where the data is sent to the correct location of the remote user, which is under the control of the MDBS of the given cell)."

Although claim 18 is broader than claim 14, certain limitations of claim 18 are identical to those in claim 14. Therefore, the corresponding limitations of claim 14 in claim 18 are rejected for the same reasons as those in claim 14.

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Regarding claims 15 and 19, Kamm discloses the methods of claims 14 and 18. Kamm further discloses, "... the first control point being associated with one of the at least two network access points communication with the remote user (col. 12, lines 26-30 where each MDBS has a controller in it and there is only one controller per access point, this is further illustrated in figure 1)."

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Regarding claims 16 and 20, Kamm discloses the methods of claims 14 and 18. Kamm further discloses, "transferring control from the first control point to a second control point (col. 17, lines 6-9 where the control is transferred to the cell hosting the remote user, and each cell is controlled by its own MDBS)."

Regarding claim 17, Kamm discloses the method of claim 16 and "transferring control from the first control point to the second control point (col. 17, lines 6-9), the second control point being associated with one of the at least two network access points (col. 12, lines 26-30 where each MDBS has a controller in it and there is only one controller per access point, this is further illustrated in figure 1)."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 6, 10, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamm et al. in view of La Porta et al. (U.S. Patent 6,496,505 B2).

Regarding claims 6 and 10, Kamm discloses the apparatus of claim 1 and the apparatus of claim 7. However, Kamm lacks what La Porta discloses "a plurality of foreign agents, each of said plurality of foreign agents being associated with one of said plurality of network access points (figure 20, element 610 where it is assumed that if remote user 608 has a foreign agent, then all remote users have a foreign agent which by its very nature of it being co-located with the mobile is associated with only one network access point)." It would have been obvious to one with ordinary skill in the art at the time of invention to include the foreign agent with the apparatus of claims 1 and 7 for the purpose of forwarding messages to a remote user that is registered in a foreign cell. The motivation for using the foreign agent in the forwarding of the messages is so that remote users can roam into other cells serviced by different controllers and gateways and still be able to communicate and not have the data be negatively affected (La Porta, col. 34, lines 26-41).

Regarding claim 12, Kamm discloses "a method for data flow control in a distributed data communication system, comprising:

receiving at a router data intended for a remote user (col. 7, lines 4-25 where gateways 104 and 204 receive data intended for a remote user identified by an address)..."

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However, Kamm does not explicitly disclose what La Porta does, "transmitting the received data to a foreign agent, the foreign agent being associated with a network access point (col. 34, lines 26-41 where the foreign agent is associated with a remote user that is in a foreign domain and thusly associated with a foreign access point)."

It would have been obvious to one with ordinary skill in the art at the time of invention to include the foreign agent for the purpose of forwarding messages to a remote user that is registered in a foreign cell. The motivation for using the foreign agent in the forwarding of the messages is so that remote users can roam into other cells serviced by different controllers and gateways and still be able to communicate and not have the data be negatively affected (La Porta, col. 34, lines 26-41).

Regarding claim 13, Kamm and La Porta disclose the method of claim 12. However, Kamm lacks what La Porta further discloses "providing said received data intended for the remote user to a home agent, the home agent being associated with the router (col. 34, lines 26-41 where the data is first sent to the home agent because that is where the remote user is based out of, then the home agent will forward the data to the appropriate destination)." It would have been obvious to one with ordinary skill in the art to have the data sent to a home agent for the same reasons and motivation as in claim 12.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Kading whose telephone number is (703) 305-0342. The examiner can normally be reached on M-F: 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Olms can be reached on (703) 305-4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Business Center (EBC) at 866-217-9197 (toll-free).

Joshua Kading

Examiner

Art Unit 2661

August 17, 2004

KÉNNETH VANDERPUYE PRIMARY EXAMINER

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